

Vocab. **2. FUNDAMENTAL COUNTING PRINCIPLE** -

method for finding the total # of ways that 2 or more events can occur

- multiply # of choices in each set or event

"How many possible combinations are there?"

Process: You may choose 1 meat and 1 vegetable for lunch. You can choose from 2 meats and 4 vegetables. How many choices do you have?

2 meats

4 veggies

events: meats • veggies

2 • 4

8 possible choices

I get to choose a car from 5 different exterior colors, four interior colors and automatic or standard transmission. How many choices do I have?

events: exterior colors interior colors transmission type

5

•

4

•

2

40 possible combinations